VEHICLES AND ELECTROMAGNETIC CLUTCHES FOR COMPRESSORS FOR SUCH VEHICLES

ABSTRACT OF THE DISCLOSURE

An electromagnetic clutch for a compressor includes a rotor, an armature, an electromagnetic coil for bringing the rotor into contact with the armature and for separating the rotor from the armature, and a temperature detection device, such as a temperature fuse or a temperature switch, or both, for detecting an excessive increase in temperature ascribed to slippage between the rotor and the armature or a temperature increase of refrigerant discharged from the compressor. An electric circuit of the temperature detection device is separated from the electric circuit of the electromagnetic coil. An abnormal condition may be accurately detected by the separate circuit structure, and a proper response to the abnormal condition may be taken quickly.